

PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

To:

RIDOUT & MAYBEE LLP
One Queen Street East
Suite 2400
Toronto, Ontario M5C 3B1
Canada

NOTIFICATION OF THE RECORDING
OF A CHANGE

(PCT Rule 92bis.1 and
Administrative Instructions, Section 422)

Date of mailing (day/month/year) 15 July 2004 (15.07.2004)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 39163-0057	
International application No. PCT/CA2003/001582	International filing date (day/month/year) 17 October 2003 (17.10.2003)

1. The following indications appeared on record concerning:

☒ the applicant ☐ the inventor ☐ the agent ☐ the common representative

Name and Address TOP GRADE MOLDS LTD. 929 Pantera Drive Mississauga, Ontario L4W 2R9 Canada	State of Nationality CA	State of Residence CA
	Telephone No. 905-625-9865	
	Facsimile No. 905-625-5417	
	Teleprinter No.	

2. The International Bureau hereby notifies the applicant that the following change has been recorded concerning:

☒ the person ☒ the name ☐ the address ☐ the nationality ☐ the residence

Name and Address INJECTNOTECH INC. 929 Pantera Drive Mississauga, Ontario L4W 2R9 Canada	State of Nationality CA	State of Residence CA
	Telephone No. 905-625-9865	
	Facsimile No. 905-625-5417	
	Teleprinter No.	

3. Further observations, if necessary:

4. A copy of this notification has been sent to:

☒ the receiving Office ☒ the designated Offices concerned
☐ the International Searching Authority ☐ the elected Offices concerned
☐ the International Preliminary Examining Authority ☐ other:

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. (41-22) 338.89.95	Authorized officer R.BEN GHACHEM (Fax 338-8995) Telephone No. (41-22) 338 8762
--	--

Ridout & Maybee LLP

CANADA'S INTELLECTUAL PROPERTY AND TECHNOLOGY LAW FIRM

Elliott J. Gold
Direct Dial: (416) 865-3528
E-mail: egold@ridoutmaybee.com

VIA FACSIMILE: 01149-89-2399-4465

International Preliminary Examining Authority
European Patent Office
D-80298 Munich
Germany

Attention: C. Kujat

Dear Sirs:

RE: RESPONSE TO TELEPHONE COMMUNICATION
International Application No. PCT/CA03/01582
Title: INTERCHANGEABLE MOLD INSERT SYSTEM
Applicant: Injectnotech Inc.
Intl. Filing Date: October 17, 2003
Our File No.: 39163-0057

This amendment is filed in response to the telephone communication of Examiner Kujat of February 24, 2005. The applicant hereby submits an amended claim 1 as suggested by the Examiner in his telephone communication. Pursuant to Rule 66.3, 66.8 and 66.9 of the PCT, the Applicant hereby requests that pages 10 of the present application be removed and that amended page 10 of claims bearing the same number, enclosed herewith pursuant to Rule 46.5 PCT, be substituted therefor comprising amended claim 1.

Claim 1 as amended is as follows (with added portions being underlined and bracketed portions deleted):

A mold insert system for an injection mold apparatus comprising a mold cavity plate and a mold core plate each secured to mold bases, relatively movable between open and closed positions, each having opposing faces, said faces meeting to define a mold

cavity between the two faces, said cavity defining the shape of a molded article, at least one of said faces defining a facial pocket therein for insertion of a mold insert, said facial pocket defining an insert passageway extending from the facial pocket through the plate and base, said mold insert secured to an insert rod, said insert rod including at least one transverse slot extending thereacross, said insert rod insertable into said passageway to a prelock position, whereat said insert is partially inserted into said facial pocket; said mold base defining a transverse passageway extending transversely to and communicating with said insert passageway; a locking member being insertable into said transverse passageway, such that a portion of said locking member is positioned within the at least one slot of the insert rod, wherein the locking member is rotatable about its axis when it is inserted in the transverse passageway such that the insert rod may be urged to move between said prelock and fully inserted positions by rotation of said locking member about its axis. [and when said locking member is inserted therein, a portion of said locking member may be positioned within the at least one slot of the insert rod, and by rotating the locking member about its axis, the insert rod may be urged to move between said prelock and fully inserted positions].

The amendment to claim 1 is made to more clearly define the invention and is consistent with the suggestion of the examiner in his telephone communication of February 24, 2005.

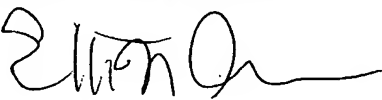
In light of the amendment made herein, it is believed that the claims meet the criteria mentioned in Article 33(1), (2) and (3) PCT in that the claims are novel and have inventive step and that the International Preliminary Examination report should be drafted accordingly. **The applicant respectfully requests that the Examiner please contact the agent for the applicant at 416-865-3528 to confirm whether this amendment is sufficient to convince the Examiner to draft an International Preliminary Examination Report which states that the claims meet the criteria of Article 33(2) and (3) PCT. We would greatly appreciate if**

the Examiner could contact the undersigned should the submissions made herein be deemed insufficient to convince the examiner that the claims meet the criteria of Article 33(2) and (3) PCT, to allow us to make a further submission, if necessary.

Yours very truly,

RIDOUT & MAYBEE LLP

Per:



For the Applicants herein

Date: February 24, 2005

EJG:lw
Encl.

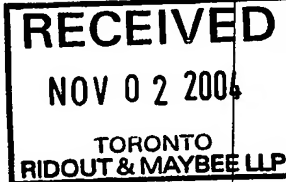
PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

RIDOUT & MAYBEE LLP
One Queen Street East
Suite 2400
Toronto, Ontario M5C 3B1
CANADA



WRITTEN OPINION
(PCT Rule 66)

Applicant's or agent's file reference 39163-0057		Date of mailing (day/month/year) 27.10.2004
REPLY DUE within 2 month(s) from the above date of mailing		
International application No. PCT/CA 03/01582	International filing date (day/month/year) 17.10.2003	Priority date (day/month/year) 18.10.2002
International Patent Classification (IPC) or both national classification and IPC B29C45/17		
Applicant INJECTNOTECH INC. et al.		

- This written opinion is the **second** drawn up by this International Preliminary Examining Authority.
- This opinion contains indications relating to the following items:
 - ☒ Basis of the opinion
 - ☐ Priority
 - ☒ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - ☐ Lack of unity of invention
 - ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - ☐ Certain documents cited
 - ☐ Certain defects in the international application
 - ☐ Certain observations on the international application
- The applicant is hereby **invited to reply** to this opinion.

When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also: For an additional opportunity to submit amendments, see Rule 66.4.
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.
- The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 18.02.2005

Name and mailing address of the international preliminary examining authority:



European Patent Office
D-80298 Munich
Tel. +49 89 2399-0 Tx: 523656 epmu d
Fax: +49 89 2399-4465

x 2360

Authorized Officer

Kujat, C

Formalities officer (incl. extension of time limits)
Kurzbaauer, K
Telephone No. +49 89 2399-6020



I. Basis of the opinion

1. With regard to the **elements** of the international application (*Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed"*):

Description, Pages

1-9 as originally filed

Claims, Numbers

1-15 as amended (together with any statement) under Art. 19 PCT

Drawings, Sheets

1/10-10/10 as originally filed

2. With regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language: , which is:

- ☐ the language of a translation furnished for the purposes of the international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of a translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

5. ☒ This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

see separate sheet

6. Additional observations, if necessary:

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:
- ☐ the entire international application,
 - ☒ claims Nos. 1,15
- because:
- ☐ the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
 - ☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. are so unclear that no meaningful opinion could be formed (*specify*):
 - ☒ the claims, or said claims Nos. 1,15 are so inadequately supported by the description that no meaningful opinion could be formed.
 - ☐ no international search report has been established for the said claims Nos.
2. A written opinion cannot be drawn due to the failure of the nucleotide and/or amino acid sequence listing to comply with the Standard provided for in Annex C of the Administrative Instructions:
- ☐ the written form has not been furnished or does not comply with the Standard.
 - ☐ the computer readable form has not been furnished or does not comply with the Standard.

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-5,15
Inventive step (IS)	Claims	1-5,15
Industrial applicability (IA)	Claims	

2. Citations and explanations

see separate sheet

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

1. The amendments filed with the International Bureau under Article 19(1) introduce subject-matter which extends beyond the content of the application as filed, contrary to Article 19(2) PCT. The amendments concerned are the following:
 - 1.1 Claim 1: "the mould base selectively engaging said insert rod"; "said locking means releasably securing said insert and rod in said fully inserted position". Claim 15: "said securing means ... being selectively operable ... to selectively secure...".
 - 1.2 There does not seem to be any basis in the application as filed for such features. In particular, the only passages of the description relating to "selectively securing" seem to be directed to the locking handle (page 7, line 16).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

- D1: US-A-4 684 101 (WAGNER EARL F ET AL) 4 August 1987 (1987-08-04)
- D2: PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04, 31 May 1995 (1995-05-31) & JP 07 009456 A (SEKISUI CHEM CO LTD), 13 January 1995 (1995-01-13)
- D3: US-A-6 120 279 (VOVAN TERRY) 19 September 2000 (2000-09-19)

- 2.1 With regard to the subject-matter of independent apparatus claim 1, document D1 discloses a mold insert system for an injection mold apparatus comprising a mold cavity plate and a mold core plate each secured to mold bases, relatively movable between open and closed positions, each having opposing faces, said faces meeting to define a mold cavity between the two faces, said cavity defining the shape of a molded article (see figure 2), at least one of said faces defining a facial pocket (figure 2: "socket 64" terminating in "seat 68") therein for insertion of a mold insert ("moulding head 72"), said facial pocket defining an insert passageway extending from the facial pocket through the plate and base (see figure 2), said

mold insert secured to an insert rod ("shank portion 76"), said insert rod insertable into said passageway to a prelock position, whereat said insert is partially inserted into said facial pocket (position prior to contact between surfaces 102 and 104; see column 4, lines 10-18); locking means ("retainer pin 96") operable from the periphery of the mold base connected to said insert rod to move said insert and rod between said prelock position and a fully inserted position (movement takes place due to "taper surface 102") whereat said insert is fully inserted within said pocket (see figure 2; column 4, line 14: "holding the insert tightly in the socket").

- 2.2 Therefore, the subject-matter of **claim 1 lacks novelty over D1**. For the same reasons, the subject-matter of independent apparatus **claim 15 lacks novelty over D1**. Further, D2 and all X-documents cited in the International Search Report destroy novelty of the subject-matters of claims 1 and 15. For details, see the passages indicated in the International Search Report.
- 2.3 With regard to the Article 19 amendments discussed in paragraph 1 of this written opinion, document D1 further discloses that the locking means ("retainer pin 96") is "selectively engaging" (The retainer pin either engages the rod or does not engage the rod.) said insert rod ("shank portion 76") and that the locking means are "releasably securing" (column 4, lines 49 and 50: "the retainer pins 96.. also serve as the release tools") the insert and rod in the fully inserted position.
3. Dependent claim 2 to 5 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty, the reasons being as follows:
- 3.1 The additional features of dependent claims 2, 3 and 5 have already been disclosed in document D1. In particular, see column 4 (lines 16 to 18) for claims 2&3, and "access plate 94" for claim 5.
- 3.2 The additional features of dependent claim 4 have already been disclosed in document D2: Locking means "press bush 6" is considered an offset cam rod (see figure 1a) rotatable about its axis (see figures a and 1b) by means of a cam handle ("flange 9") positioned on the periphery of the mould base (see figure a).
- 4.1 Whilst it is possible that a feature can be found amongst the dependent claims that would render claim 1 novel, the discussion must then address

the question of whether such a feature is truly inventive.

Therefore, should the applicant submit a new independent claim, he is kindly invited to provide a thorough problem-solution approach analysis to justify its inventiveness.

- 4.2 With regard to the rotatable cam member disclosed claim 4 and in figure 4 of the application in suit, documents D2 and D3 are considered highly relevant!
- 5.1 Although **claims 1 and 15** have been drafted as separate independent claims, they appear to relate effectively to the same subject-matter and to differ from each other only with regard to the definition of the subject-matter for which protection is sought or in respect of the terminology used for the features of that subject-matter. The aforementioned claims therefore **lack conciseness** and as such do not meet the requirements of Article 6 PCT.
- 5.2 Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant **background art** disclosed in the documents **D1 to D3** is not mentioned in the description, nor are these documents identified therein.

Elliott J. Gold
Direct Dial: (416) 865-3528
E-mail: egold@ridoutmaybee.com

VIA FACSIMILE: 01149-89-2399-4465

International Preliminary Examining Authority
European Patent Office
D-80298 Munich
Germany

Dear Sirs:

RE: RESPONSE TO WRITTEN OPINION
International Application No. PCT/CA03/01582
Title: INTERCHANGEABLE MOLD INSERT SYSTEM
Applicant: Injectnotech Inc.
Intl. Filing Date: October 17, 2003
Our File No.: 39163-0057

This response is filed pursuant to Rule 66.3 PCT. The applicant submits the following arguments and amended claims in response to the Written Opinion mailed October 27, 2004, the date for which a reply is due being **February 4, 2005**.

Pursuant to Rule 66.3, 66.8 and 66.9 of the PCT, the Applicant hereby requests that pages 10, 11, 12 of the present application be removed and that amended pages of claims bearing the same numbers, enclosed herewith pursuant to Rule 46.5 PCT, be substituted therefor comprising amended claims 1 to 13.

The claims have been amended to better define the invention as described in the application. As will be discussed in detail below, the amended claims submitted herewith are wholly supported by the description. The Examiner stated that the amendments made previously under Article 19 extend beyond the description and are

thus not in compliance with Article 19(2) of the PCT. The amended claims submitted herewith are wholly supported by the description, and the allegedly objectionable terminology added under Article 19 is not present in the claims submitted herewith. By this amendment, each of the issues raised in the written opinion have been addressed.

In the Written Opinion, the Reasoned Statement pursuant to Rule 66.2(a)(ii) stated that claims 1 to 5 and 15 on file did not meet the requirements of novelty or inventive step in light of references D1, D2 and D3. The amended claims submitted herewith include features which are neither disclosed, contemplated, nor suggested by these references either alone or in combination and thus the Examiner's Reasoned Statement with regard to novelty and inventive step should be withdrawn.

Claim 1 as amended is as follows:

A mold insert system for an injection mold apparatus comprising a mold cavity plate and a mold core plate each secured to mold bases, relatively movable between open and closed positions, each having opposing faces, said faces meeting to define a mold cavity between the two faces, said cavity defining the shape of a molded article, at least one of said faces defining a facial pocket therein for insertion of a mold insert, said facial pocket defining an insert passageway extending from the facial pocket through the plate and base, said mold insert secured to an insert rod, said insert rod including at least one transverse slot extending thereacross, said insert rod insertable into said passageway to a prelock position, whereat said insert is partially inserted into said facial pocket; said mold base defining a transverse passageway extending transversely to and communicating with said insert passageway; a locking member being insertable into said transverse passageway, and when said locking member is inserted therein, a portion of said locking member may be positioned within the at least one slot of the insert rod, and by rotating the locking member about its axis, the insert rod may be urged to move between said prelock and fully inserted positions.

Support for claim 1 as amended is found on pages 6 and page 7 of the description. Support for the presence of more than one transverse slot on the insert rod is explicitly indicated at page 9, line 7.

None of the prior art includes the features of claim 1, nor do they contemplate the solution achieved by the invention of claim 1. Claim 1 as amended includes the limitation of a transverse passageway extending transversely to and communicating with an insert passageway and a locking member being insertable into said transverse passageway, and when said locking member is inserted therein, a portion of said locking member may be positioned within the at least one slot of the insert rod, and by rotating the locking member about its axis, the insert rod may be urged to move between said prelock and fully inserted positions. The invention of amended claims 1 to 13, utilizes rotation forces of the locking rod about its axis to move the insert rod between the prelock and fully inserted positions. This is possible by having the locking rod engaging the transverse slot of the insert rod, which allows movement between the prelock and fully inserted positions during rotation. This feature is not disclosed nor contemplated by the prior art documents. In fact, this feature which was included in previously pending claim 10, was not objected to for failing to meet the requirements of patentability in the written opinion.

Amended claims 2 and 3 further define the embodiment of the invention described on page 6 and shown in Figures 4 to 6. Amended claims 4, 5, 6, 7, 8 and 13 correspond to previously pending claims 5, 7, 8, 9, 11 and 7 respectively. Amended claims 4 to 8 and 13 include features which clearly are not disclosed or even suggested by the prior art documents D1, D2 and D3. Amended claim 9 further defines the invention and is supported by the discussion of the embodiment of the invention of Figure 8 on page 8. In fact, amended claim 9 corresponds to the same subject matter as previously pending claim 12, which was not objected to for failing to meet the requirements of patentability in the Written Opinion. Amended claims 10 and 11 further

define the invention and are supported by the description at page 9 and Figures 9 and 9A. Amended claim 12 corresponds to previously pending claim 13 and has been amended to better more explicitly define the invention. Support for amended claim 12 is found on page 9, paragraph 2.

The Examiner stated that previously pending claims 1 and 15 relate to the same subject matter and differ only with regard to the definition of the subject matter for which protection is sought or in respect of terminology used for the features of the subject matter, and thus these claims lack conciseness and do not meet the requirements of Article 6 PCT. Applicant has deleted claim 15, thereby resolving the Examiner's objection under Article 6.

In light of the amendments and submissions made herein, it is believed that the claims meet the criteria mentioned in Article 33(1), (2) and (3) PCT in that the claims are novel and have inventive step and that the International Preliminary Examination report should be drafted accordingly. **The applicant respectfully requests that it be given at least one or more additional opportunities to submit amendments and/or arguments, should the submissions made herein be deemed insufficient to convince the examiner that the claims meet the criteria of Article 33(2) and (3) PCT.**

Yours very truly,

RIDOUT & MAYBEE LLP

Per:

For the Applicants herein



Date: February 3, 2005

EJG:lw
Encl.

Ridout & Maybee LLP

CANADA'S INTELLECTUAL PROPERTY AND TECHNOLOGY LAW FIRM

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B29C45/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B29C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 684 101 A (WAGNER EARL F ET AL) 4 August 1987 (1987-08-04) figure 2	1-3, 15
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04, 31 May 1995 (1995-05-31) & JP 07 009456 A (SEKISUI CHEM CO LTD), 13 January 1995 (1995-01-13) abstract	1-5, 15
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 04, 30 April 1999 (1999-04-30) & JP 11 000935 A (FUJI PHOTO FILM CO LTD), 6 January 1999 (1999-01-06) abstract	1-3, 15
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

30 January 2004

Date of mailing of the international search report

09/02/2004

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Kujat, C

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 153 (M-1235), 15 April 1992 (1992-04-15) & JP 04 007114 A (SHARP CORP), 10 January 1992 (1992-01-10) abstract ---	1-3, 15
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 04, 30 April 1999 (1999-04-30) & JP 11 010650 A (MITSUBISHI MATERIALS CORP), 19 January 1999 (1999-01-19) abstract ---	1, 15
X	US 5 895 621 A (NIMURA SOJI ET AL) 20 April 1999 (1999-04-20) figures 1A,7 ---	1-3, 15
X	EP 0 404 713 A (UNITED TECHNOLOGIES CORP) 27 December 1990 (1990-12-27) figure 9 ---	1-3, 15
X	US 4 867 668 A (MIYAIRI KAZUKI) 19 September 1989 (1989-09-19) figure 1 ---	15
X	US 6 120 279 A (VOVAN TERRY) 19 September 2000 (2000-09-19) figures 10,11 ---	15
A	PATENT ABSTRACTS OF JAPAN vol. 014, no. 081 (M-0935), 15 February 1990 (1990-02-15) & JP 01 295813 A (NAKAGAWA ELECTRIC IND CO LTD), 29 November 1989 (1989-11-29) abstract ---	1-15
A	ROSATO D V: "Injection Molding Handbook" , INJECTION MOLDING HANDBOOK, XX, XX, PAGE(S) 282-285 XP002209545 figures 4-77 ---	1-15
A	"VOLLTAUSCHBARES WERKZEUG-WECHSELSYSTEM" , PLASTVERARBEITER, ZECHNER UND HUETHIG VERLAG GMBH. SPEYER/RHEIN, DE, VOL. 45, NR. 5, PAGE(S) 42-43 XP000442496 ISSN: 0032-1338 figure 2 -----	1-15

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4684101	A	04-08-1987	NONE	
JP 07009456	A	13-01-1995	NONE	
JP 11000935	A	06-01-1999	NONE	
JP 04007114	A	10-01-1992	NONE	
JP 11010650	A	19-01-1999	JP 3319342 B2	26-08-2002
US 5895621	A	20-04-1999	JP 2812198 B2	22-10-1998
			JP 7290528 A	07-11-1995
			US 5728344 A	17-03-1998
			DE 19515585 A1	02-11-1995
			US 5603968 A	18-02-1997
			US 5766655 A	16-06-1998
EP 0404713	A	27-12-1990	US 5178885 A	12-01-1993
			EP 0404713 A1	27-12-1990
			JP 3026519 A	05-02-1991
US 4867668	A	19-09-1989	JP 1722656 C	24-12-1992
			JP 4002414 B	17-01-1992
			JP 62271718 A	26-11-1987
			CH 678035 A5	31-07-1991
			DE 3716796 A1	26-11-1987
			FR 2598960 A1	27-11-1987
			GB 2190622 A ,B	25-11-1987
			IT 1215511 B	14-02-1990
			KR 9007328 B1	08-10-1990
			PT 84902 A ,B	01-06-1987
US 6120279	A	19-09-2000	NONE	
JP 01295813	A	29-11-1989	NONE	

PCT REQUEST

Original (for SUBMISSION) - printed on 17.10.2003 02:16:56 PM

0	For receiving Office use only	
0-1	International Application No.	RO/CA 03 / 01582
0-2	International Filing Date	17 OCTOBER 2003 17.10.03
0-3	Name of receiving Office and "PCT International Application"	RO/CA
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.07.2003)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Canadian Patent Office (RO/CA)
0-7	Applicant's or agent's file reference	39163-0057
I	Title of Invention	INTERCHANGEABLE MOLD INSERT SYSTEM
II	Applicant	
II-1	This person is:	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	TOP GRADE MOLDS LTD.
II-5	Address:	929 Pantera Drive Mississauga, Ontario L4W 2R9 Canada
II-6	State of nationality	CA
II-7	State of residence	CA
II-8	Telephone No.	905-625-9865
II-9	Facsimile No.	905-625-5417
II-10	e-mail	tgm@topgrademolds.com
III-1	Applicant and/or inventor	
III-1-1	This person is:	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	CICCONE, Vince
III-1-5	Address:	118 Rushworth Crescent Kleinburg, Ontario L0J 1C0 Canada
III-1-6	State of nationality	CA
III-1-7	State of residence	CA

PCT REQUEST

Original (for SUBMISSION) - printed on 17.10.2003 02:16:56 PM

III-2	Applicant and/or inventor	
III-2-1	This person is:	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	MARAN, Petrica
III-2-5	Address:	765 Clemens Cres Mississauga, Ontario L5V 2S9 Canada
III-2-6	State of nationality	CA
III-2-7	State of residence	CA
IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name	RIDOUT & MAYBEE LLP
IV-1-2	Address:	One Queen Street East Suite 2400 Toronto, Ontario M5C 3B1 Canada
IV-1-3	Telephone No.	416-868-1482
IV-1-4	Facsimile No.	416-362-0823
V	Designation of States	
V-1	Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PT RO SE SI SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT
V-2	National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN (ru) ZA ZM ZW CS

PCT REQUEST

35. J-0057


Original (for SUBMISSION) - printed on 17.10.2003 02:16:56 PM

V-5	Precautionary Designation Statement In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.	
V-6	Exclusion(s) from precautionary designations	NONE
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	18 October 2002 (18.10.2002)
VI-1-2	Number	2,408,813
VI-1-3	Country	CA
VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)
VIII	Declarations	Number of declarations
VIII-1	Declaration as to the identity of the inventor	-
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-
IX	Check list	number of sheets
IX-1	Request (including declaration sheets)	4
IX-2	Description	9
IX-3	Claims	3
IX-4	Abstract	1
IX-5	Drawings	10
IX-7	TOTAL	27
		electronic file(s) attached
		EZABST00.TXT

PCT REQUEST

35...3-0057

Original (for SUBMISSION) - printed on 17.10.2003 02:16:56 PM

	Accompanying items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-17	PCT-EASY diskette	-	Diskette
IX-19	Figure of the drawings which should accompany the abstract	6	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative		
X-1-1	Name	RIDOUT & MAYBEE LLP	
X-1-2	Name of signatory	W. Dennis Moss	
X-1-3	Capacity	Agent	

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	17 OCTOBER 2003 17:10:03
10-2	Drawings:	✓
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
------	--	--

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.